

### ABSTRACT

Between a radiation detecting section 1, arranged by a scintillator 10 and a PD array 15, and a signal processing element 30, processing detected signals output from PD array 15, is disposed a wiring substrate section 2, provided with conduction paths that guide the detected signals between PD array 15 and signal processing element 30. Wiring substrate section 2 has a first wiring substrate 20, having conductive members 21, which are to serve as the conduction paths at the PD array 15 side, provided in through holes 20c, and a second wiring substrate 25, having conductive members 26, which are to serve as the conduction paths at the signal processing element 30 side, provided in through holes 25c, and is arranged so that the positions of through holes 20c in wiring substrate 20 differ from the positions of through holes 25c in wiring substrate 25 as viewed in the alignment direction. A wiring substrate, with which the transmission of radiation is restrained, and a radiation detector, using this wiring substrate, are thus provided.